Fairview Microwave
an INFINITE brand

20 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 25 GHz to 28 GHz in Brass

The FMWCP1088-20 is a 20 dB WR-34 three port crossguide coupler with intergrated UG Cover flange for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via waveguide to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.1:1 and are made of Brass with UG Cover flanges. The FMWCP1081-40 is part of a family of cross guide couplers offered by Fairview Microwave with coupling values ranging from 20 to 50 dB.

Features:

- Three Port Crossguide Waveguide Coupler
- 20±0.7 dB Nominal Coupling Level
- 25 GHz to 28 GHz Frequency Range
- Low VSWR < 1.25:1

Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
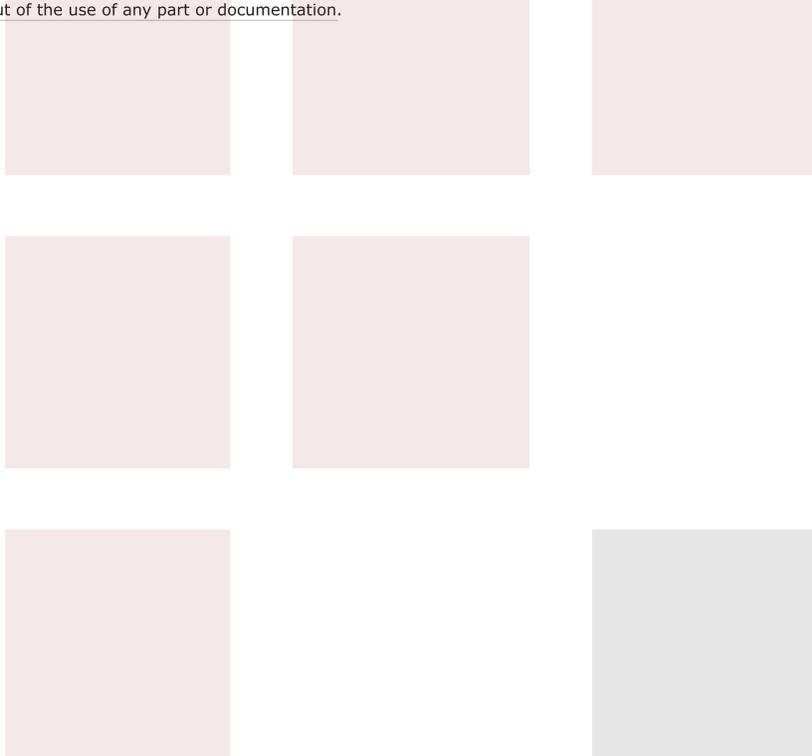- Power Measurements
- Source Leveling

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	25		28	GHz
Coupler				
Nominal Coupling Level		20		dB
Coupling Accuracy			±0.7	dB
Directivity	18			dB
Insertion Loss		0.2		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			250	Watts
Input Power Peak			30	kWatts

Mechanical Specifications

Size

Length	2.441 in [62 mm]
Width	2.087 in [53.01 mm]
Height	0.831 in [21.11 mm]
Weight	0.22 lbs [99.79 g]

Interface

Waveguide Size	WR-34
Flange Type	UG Cover

Coupler Body Material and Plating	Brass Copper, Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data
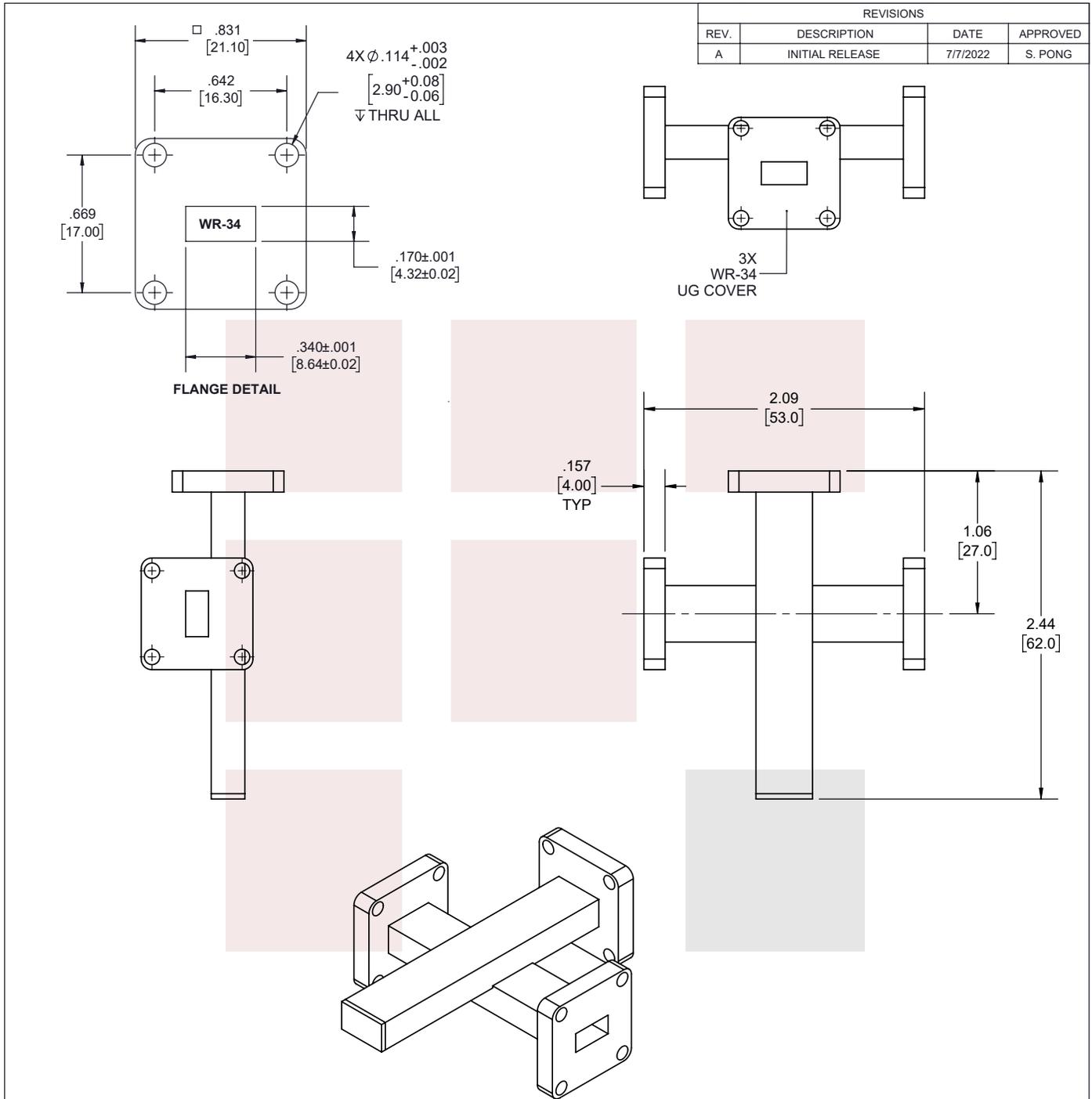Notes:

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20 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 25 GHz to 28 GHz in Brass from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 20 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG Cover Flange from 25 GHz to 28 GHz in Brass FMWCP1088-20

URL: https://www.fairviewmicrowave.com/20-db-wr-34-waveguide-crossguide-coupler-fmwcp1088-20-p.aspx

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/7/2022	S. PONG

□ .831
[21.10]

.642
[16.30]

4X ⌀.114 +.003 / -.002
[2.90 +0.08 / -0.06]
⤓ THRU ALL

.669
[17.00]

WR-34

.170±.001
[4.32±0.02]

.340±.001
[8.64±0.02]

FLANGE DETAIL

3X
WR-34
UG COVER

2.09
[53.0]

.157
[4.00]
TYP

1.06
[27.0]

2.44
[62.0]

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

THIRD-ANGLE PROJECTION

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]   FRACTIONS
.XX = ±.02 [.51]   ± 1/32
.XXX = ±.005 [.13]   ANGLES ± 1°

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

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SHEET 1   OF 1

TITLE

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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	FMWCP1088-20	A

T-Rev.D